3 Basic dialog, example

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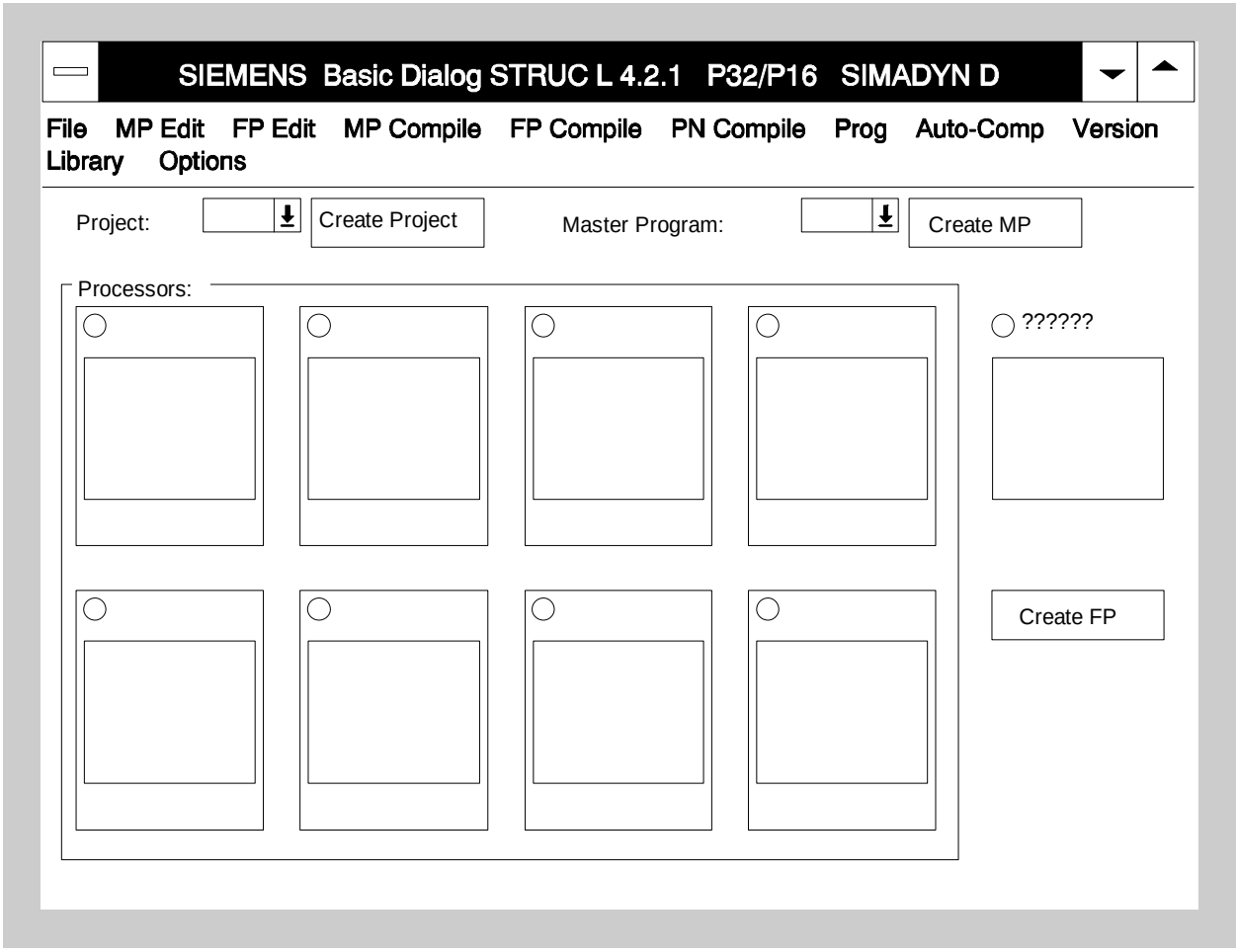
3.1 Basic dialog

As introduction to the handling of STRUC L, an example is described, in which a function package is generated. It is assumed that the reader is knowledgable about the contents of Section 1.

The basic dialog is displayed after the STRUC L configuring system has been started:



3.1.1 Structure of the basic dialog

♦ **Menu bar**

File	
Delete	
Selected PJ	The project directory is deleted with all MP sub-directories.
Selected MP	The master progarm directory is deleted with all files.
Selected FP	All with FP names connected files are deleted.
Straighten up selected MP	This function deletes all files except the source files .UMP, .CMP, .UFP, .CFP, .OFP, .SFP, .Kxx, .RMP, .RPN, .IPN
List	
MP	List masterprogram
Current Configuration	This current selected masterprogram appears in the "D5STRU" input window, but can only be read and not be processed.
Back-Up	This selected „old“ masterprogram appears in the "D5STRU" input window, but can only be read and not be processed.
Complete RCOP	The selected, from the memory modul re-translated, master program appears in the input window for control.
FP	List function package
Current Configuration	This current selected masterprogram appears in the "D5STRU" input window, but can only be read and not be processed.
Back-Up	This selected „old“ masterprogram appears in the "D5STRU" input window, but can only be read and not be processed.
MAP Listing	The MAP listing of the selected function packages, created while compiling FP, appears in the input window for control.
Complete RCOP	The selected, from the message modul re-translated, function package appears in the input window for control.
RCOP Revisions	The modification list of the selected function packages, re-translated from the memory modul, appears in the input window for control.
PN	
MAP Listing	The MAP listing, created while compiling the processor program, appears in the input window for control.
RCOP Contents	The contents, decompiled from the memory modul and existing in the modified and unmodified function packages, appears in the input window for control.
RCOP Revisions	The modification list of the selected function packages, decompiled from the memory modul, appears in the input window for control.
Print to File	
Write Format	The STRUC-L file (i.e.∗.CFP) is formated as STRUC-L listing for processing with MS write: – Create script head and script feet and enter these in front of the text – Fade out „unvisible lines“ Subsequently the letter is written into the file ∗.WRI.
ASCII-Format	The STRUC L file (i.e.∗.CFP) is formated as STRUC-L listing in ASCII-Format: – Create head script and feet script with sheet number – Distribute text among several sheets according to page layout – Fade out „unvisible lines“ Subsequently the letter is written into the file ∗.Lxx.

Sheet Layout	For formarting STRUC-L text in ASCII-format, the page layout is adjustable defined in a parameter file.
Print	The STRUC L file (i.e. ∗CFP) is formated as STRUC-L listing in ASCII-Format and transfered to the printer.
MP	STRUC L files: .U/CMP, .OMP, .RMP
FP	STRUC L files: .U/CFP, .OFP, .MFP, .SFP, .RFP
PN	STRUC L files: .MPN, .IPN, .RPN
Extract Comment	Filter commet texts from configuring and store these as text files.
MP	The comments of the MP file and all function packages of MP are extracted. PN comments of all FP are summed up in a comment file.
PN	PN comments of all FP are extracted and summed up in a text file.
All FPs of the PN	The comments of the selected FP extracted and summed up in a text file.
Selected FP	The comment of the selcetd FP are extracted and summed up in a text file.
Replace comment	Replace comments of the source language with comment texts in the target language while configuring.
MP	The comments of the MP file and all function packages of MP are replaced. There is a search for the texts, that shall be replaced, in MP´s comment files of all PN.
PN	PN comments of all FPs are replaced. First there is a search for the texts, that shall be replaced, in the comment file of the selected PN and then in MP´s comment files of the left PN of MP.
All FPs of the PN	PN of all FP are replaced. Then there is only a search for the texts, that shall be replaced, in even processed FP.
Exit STRUC	Clicking quitts the basic dialog and cause the return to the level of Windows.
MP Edit	Process master program
Configure	The selected master program appears in the input window „D5STRU“ and can be processed.
Listing	The selected master program appears in the input window „D5STRU“ , however it cannot be processed, but only read.
Check Syntax	The syntax check of the selected master program is carried out.
FP Edit	Process funcion package
Configure	The selected function package appears in the input window „D5STRU“ and can be processed.
Listing	The selected function package appears in the input window „D5STRU“ , however it cannot be processed, but only read.
Check Syntax	The syntax check of the selected function package is carried out.
MP Compile	Compile master program
Selected MP	The selected masterprogram is translated by the compiler. Errors in the STRUC-L configuring appear with the number of errors and the number of warnings in a message window . For removing errors it is necessary to remove to the editor.

FP Compile	Compile funcrtion package
Selected FP	The selected function package is translated by the compiler, if first the corresponding masterprogram was translated. Errors in STRUC-L configuring appear in a message window at the end. For removing the errors, it is necessary to edit and translate the master program and/or the function packages.
PN Compile	Compile processor program
Selected PN	The processor program of the selected processor is translated by the compiler, if the corresponding masterprogram and the function packages were translated. Errors in the STRUC-L configuring appear in a message window at the end. For removing errors, it is necessary to edit and translate the master program and/or the function packages.
Prog	
Selected PN	The processor program of the selected processor is transferred to a memory submodule
P32 Erase Modification Memory	The modification memory of the P32 submodule (MS5, MS55) is deleted.
P16 Erase Modification Memory	The modification memory of the P16 submodule (MS41, MS45) is deleted.
Auto-Comp	Compile master program or processor program
Selected PN	The processor program of the selected processor and the function packages, belonging to this program, are compiled. Errors are denounced in a message.
Selected MP	The master program, the corresponding function paclkages and all processor programs are compiled. Errors are denounced in a message. All messages are collected in a log file. It is advantageous to check with function Options / Log file after an Auto-Comp run, if all processor programs were generated error free.
Version	Version adaption
Match Version	Adapt configuration to a new system software version.
Selected MP	Adapt selected master program file to new version. Errors are denounced in a corresponding message. For removing errors, it is necessary to return to MP editor.
Selected FP	Adapt function packages of the selected processor to new version. Errors are denounced in a corresponding message. For removing errors, it is necessary to return to FP editor.
All FPs of the PN	Adapt selected function package to new version. Errors are denounced in a corresponding message. For removing errors, it is necessary to return to FP editor.
All FPs and MP	Adapt master program and all corresponding function packages to new version. Errors are denounced in a corresponding message. For removing errors, it is necessary to return to FP editor.
FP Transformation P16<->P32	If the selected processor is a P32 prcessor and zthe selceted function packjage is a P16 functio poackage, then the function package is transformed in a P32 function package. Just so the P32 function package is transformed into a P16 function package. If the function package, that shall be transformed, was created by an older system software version, then a version adaption while the transformation will be carried out additionally.

Library — Select libraries
The window „Select libraries“ appears. The standard libraries, already attached, are announced with the version, output standard and availability for 32 bit- and 16 bit processors. Further existing libraries (Standard- and User addition libraries) can be selected and attached to addition llibraries A:, B: and C:

Options

- Log File — Error messages, created with the copiler functions, are collected in a log file. This log file can be read and deleted.
- Test ID — Set and delete test code. Test codes control the creation of test protocols: FP MAP listing is only created, if the test code 1“M“ is set.
- Delete Strategy — The automaticallly deleting of illegal STRUC-L files can be turned on and off.
- Address Book — Create the list of all block connector´s absolut adresses of the selected P32 processor program for PDA visualisation system.
- FP Lock — The „reserse translation inhibit“ is set in the selected function package.
- FP Unlock — The "reverse translation inhibit" is deleted in the selected function package.
- Configurable Macros — All macro names of the max. 8 sub-directories are listed in the selected project.

The following menus are explained in more detail in the specified Sections:

Menu	**Function**	**STRUC L Manual**	**STRUC L editor/compiler**
File	Process file and quit basic dialog	3	
MP Edit	Edit master program		1 / 2
FP Edit	Edit function package		1 / 3
MP Compile	Compile master program		2
FP Compile	Compile function package		3
PN Compile	Compile processor program (create)		4
Prog	Load processor program into memory submod.		4
Auto-Comp	Start automatic compiler call sequence		2 / 3
Version	Version adaption for MP and FP	3	
Library	Select libraries	4	
Options	Options	3	

- **Select project**

By clicking on the project selection arrow, the list of already generated projects is displayed as a scrolling menu. A project can be selected by clicking on the project name. The scrolling menu is closed, and the selected project name is entered at the left in the window.

- **Generate project**

After clicking on this field, a window appears, in which the name of the project to be created should be entered. The name consists of between one and six characters (letters, digits), that start with a letter. The project name is entered at the left in the window after confirming with OK. The generated project is automatically selected.

- **Select master program**

Corresponding to "select project", a master program is selected from the selected project

- **Generate master program**

Corresponding to "generate project", the master program names are assigned here.

- **Select processor program**

By clicking on the PN select button, a processor program of the selected master program is selected for processing.

- **Processors**

The processor programs, configured in the selected master program, are listed here with the associated function packages. They can be selected here for subsequent processing with the editor or compiler.

- **Select function package**

Under the processor program names of the selected master program, the list of the function packages, assigned to the processor, are displayed as scrolling menu. By clicking on the function package names, a function package can be selected for processing. The associated processor program is simultaneously selected.

- **Generate function package**

Names for function packages are assigned and generated here corresponding to the "generate master program". After selecting this function, it is first interrogated, as to whether the function package is for a 16-bit- or 32-bit processor. A name is then assigned. If this is confirmed with "OK", then the function package, the associated processor program, and the "FP Edit" function are automatically selected. The "D5STRU" input window is automatically opened and the function package can be processed.

- **??????**

All function packages are listed here, which are still not assigned to a specific processor program. The assignment of the function packages to a processor program, is configured in the master program. Even an unassigned FP can be selected, as described above, for processing.